

U.S. SERIAL NO: 07/867, 819  
FILED: April 13, 1992  
AMENDMENT

*at*  
*Sub*  
*730*

[the La/SSB epitopes: 136, QVLNIQMRRTLHKAFKGS  
(Sequence Listing ID No. 19), 139, NIQMRRTLHKAFK (amino acids 4-  
16 of Sequence Listing ID No. 19), 144, RTLHKAFK (amino acids 9-  
16 of Sequence Listing ID No. 19), 17, ICHQIEYYFGDFNLPRDKFLK  
(Sequence Listing ID No. 20), 24, YFGDFNLP (amino acids 8-15 of  
Sequence Listing ID No. 20), 46, WVPLEIMIKENR (Sequence Listing  
ID No. 21), 47, VPLEIMIK (amino acids 2-9 of Sequence Listing ID  
No. 21), 86, KTKIRRRSPSKPL (Sequence Listing ID No. 22), 88,  
KIRRRSPSK (amino acids 4-11 of Sequence Listing ID No. 22), 56,  
NRLNRLTTDFNVIVE, (Sequence Listing ID No. 23), 56, NRLNRLTT (amino  
acids 1-8 of Sequence Listing ID No. 23), 257, GEIKWIDFVRGAK  
(Sequence Listing ID No. 24), 260, KWIDFVRGAK (amino acids 4-13  
of Sequence Listing ID No. 24), 262, IDFVRGAK (amino acids 6-13  
of Sequence Listing ID No. 24), 325, SLNKWKSKGRRFKGKGKGNK  
(Sequence Listing ID No. 25), 330, KSKGRRFK (amino acids 6-13 of  
Sequence Listing ID No. 25), 292, GNLQLRNKEVTW (Sequence Listing  
ID No. 26), 296, LRNKEVTW (amino acids 5-12 of Sequence Listing  
ID No. 26), 154, IFVVFDSIE (Sequence Listing ID No. 27), 155,  
FVVFDSIE (amino acids 2-9 of Sequence Listing ID No. 27), 176,  
KETDLLILFKDDYFA (Sequence Listing ID No. 28), 182, ILFKDDYF  
(amino acids 7-14 of Sequence Listing ID No. 28), 104,  
YKNDVKNRSVYIKGFPT (Sequence Listing ID No. 29), 112, SVYIKGFP  
(amino acids 9-16 of Sequence Listing ID No. 29), 63, TDFNVIVE  
(Sequence Listing ID No. 30), 64, DFNVIVEA (amino acids 2-9 of

U.S. SERIAL NO: 07/867, 819  
FILED: April 13, 1992  
AMENDMENT

Sequence Listing ID No. 30), 270, EGIILFKEKAK (Sequence Listing ID No. 31), 270, EGIILFKE (amino acids 1-8 of Sequence Listing ID No. 31), 354, KVQFQGKKTTFASD, (Sequence Listing ID No. 32), 360, KKTKFASD (amino acids 7-14 of Sequence Listing ID No. 32), 246, REDLHILF (Sequence Listing ID No. 33), 232, CLLKFSGD (Sequence Listing ID No. 34), 379, TGPVKRAR (Sequence Listing ID No. 35), 200, KVEAKLRAKQ (Sequence Listing ID No. 36), 202, EAKLRAKQ (amino acids 3-10 of Sequence Listing ID No. 36);]

the Ro/SSA epitopes: 30, MNRLHRFL (Sequence Listing ID No. 37), 37, LCFGSEGGT (Sequence Listing ID No. 38), 38, CFGSEGGT (amino acids 2-9 of Sequence Listing ID No. 38), 41, SEGGTYIYIKEQ (Sequence Listing ID No. 39), 42, EGGTYIYIKEQ (amino acids 2-11 of Sequence Listing ID No. 39), 44, GTYYIYIKEQ (amino acids 4-11 of Sequence Listing ID No. 39), 44, GTYYI (amino acids 4-8 of Sequence Listing ID No. 39), 76, EIKSFSQEGRT (Sequence Listing ID No. 40), 78, KSFSQEGR (amino acids 3-10 of Sequence Listing ID No. 40), 81, SQEGRTTKQ (Sequence Listing ID No. 41), 84, GRTTKQEPM (Sequence Listing ID No. 42), 106, STKQAAFKAV (amino acids 2-11 of Sequence Listing ID No. 43), 105, ISTKQAAFKAVS (Sequence Listing ID No. 43), 108, KQAAFKAV (amino acids 4-11 of Sequence Listing ID No. 43), 111, AFKAVSEVC (Sequence Listing ID No. 44), 126, FTFIQFKKDLKESMK (Sequence Listing ID No. 45), 130, QFKKDLKE (amino acids 5-12 of Sequence Listing ID No. 45), 138, SMKCGMWGRA (Sequence Listing ID No. 46),

U.S. SERIAL NO: 07/867, 819  
FILED: April 13, 1992  
AMENDMENT

*cf*  
*Sub*  
*730*

139, MKCGMWGRA (amino acids 2-10 of Sequence Listing ID No. 46),  
142, GMWGRALRKAIA (Sequence Listing ID No. 47), 145, GRALRKAI  
(amino acids 4-11 of Sequence Listing ID No. 47), 165,  
ALAVTKYKQRNGWSHKDLLRLSH (Sequence Listing ID No. 48), 169,  
TKYKQRNG (amino acids 5-12 of Sequence Listing ID No. 48), 173,  
QRNGWSHK (amino acids 9-16 of Sequence Listing ID No. 48), 182,  
LLRLSHLKPSS (Sequence Listing ID No. 49), 184, RLSHLKPS (amino  
acids 3-10 of Sequence Listing ID No. 49), 199, TKYITKGW (amino  
acids 2-9 of Sequence Listing ID No. 71), 202, ITKGWKEV (amino  
acids 5-12 of Sequence Listing ID No. 71), 210, HELYKEKA  
(Sequence Listing ID No. 50), 212, LYKEKALSV (Sequence Listing ID  
No. 51), 216, KALSVETEKLLKYL (Sequence Listing ID No. 52), 222,  
TEKLLKYL (amino acids 7-14 of Sequence Listing ID No. 52), 224,  
KLLKYLEA (Sequence Listing ID No. 53), 229, LEAVEKVKRTKDE  
(Sequence Listing ID No. 54), 234, KVKRTKDE (amino acids 6-13 of  
Sequence Listing ID No. 54), 257, HLLTNHLKSKEVWKALLQEMPL  
(Sequence Listing ID No. 55), 263, LKSKEVWK (amino acids 7-14 of  
Sequence Listing ID No. 55), 264, KSKEVWKA (amino acids 8-15 of  
Sequence Listing ID No. 55), 265, SKEVWK (amino acids 9-14 of  
Sequence Listing ID No. 55), 280 ALLRNLGKMTA (Sequence Listing ID  
No. 56), 283, RNLGKMT (amino acids 4-10 of Sequence Listing ID  
No. 56), 285, LGKMTANS (Sequence Listing ID No. 57), 308,  
LCNEKLLKKARIHPFHI (Sequence Listing ID No. 58), 313, LLKKARI  
(amino acids 6-12 of Sequence Listing ID No. 58), 315, KKARIHPF

U.S. SERIAL NO: 07/867, 819  
FILED: April 13, 1992  
AMENDMENT

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*Sub*  
*731*  
~~(amino acids 8-15 of Sequence Listing ID No. 58), 330,  
TYKTGHGLRGKLGKWRPDE (Sequence Listing ID No. 59), 331, YKTGHGL  
(amino acids 2-8 of Sequence Listing ID No. 59), 352, ALDAAFYK  
(Sequence Listing ID No. 60), 355, AAFYKTFKTVEPTGKRFLLA (Sequence  
Listing ID No. 61), 379, ASMNQRLVLS (Sequence Listing ID No. 62),  
365, EPTGKRFL (amino acids 11-18 of Sequence Listing ID No. 61),  
398, AMCMVVTR (Sequence Listing ID No. 63), 414, AFSDEMVP  
(Sequence Listing ID No. 64), 420, VPCPVTTD (Sequence Listing ID  
No. 65), 433, VLMAMSQI (Sequence Listing ID No. 66), 445,  
TDCSLPMI (Sequence Listing ID No. 67), 449, LPMIWAQKTNTPA (amino  
acids 3-15 of Sequence Listing ID No. 68), 472, TFAGGVHPAI  
(Sequence Listing ID No. 69), 472, TFAGGVHP (amino acids 1-8 of  
Sequence Listing ID No. 69), 481, IALREYRKKMDIPAKL (Sequence  
Listing ID No. 70), 484, REYRKKMD (amino acids 4-11 of Sequence  
Listing ID No. 70)[;~~

the Sm B/B' epitopes: 28, IGTFKAFFD (Sequence Listing  
ID No. 103), 29, GTFKAFFDK (Sequence Listing ID No. 1), 30,  
TFKAFFDKH (amino acids 1-8 of Sequence Listing ID No. 15) 29, 30,  
TFKAFFDKHM (Sequence Listing ID No. 15) 44, DCDEFKRI (Sequence  
Listing ID No. 104) 45, CDEFKRIK (amino acids 1-8 of Sequence  
Listing ID No. 2) 45, CDEFKRIKPKNAKQP (Sequence Listing ID No.  
2), 46, DEFKRIKP (amino acids 2-9 of Sequence Listing ID No. 2),  
47, EFKRIKPK (amino acids 3-10 of Sequence Listing ID No. 2), 48,  
FRKIKPKN (amino acids 4-11 of Sequence Listing ID No. 2), 49,

U.S. SERIAL NO: 07/867, 819  
FILED: April 13, 1992  
AMENDMENT

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*Sub*  
*730*

~~RKIKPKNA (amino acids 5-12 of Sequence Listing ID No. 2), 50,  
KIKPKNAK (amino acids 6-13 of Sequence Listing ID No. 2), 51,  
IKPKNAKQ (amino acids 7-14 of Sequence Listing ID No. 2), 52,  
KPKNAKQP (amino acids 8-15 of Sequence Listing ID No. 2), 53,  
PKNAKQPE (Sequence Listing ID No. 105), 83, EGPPPKDT (Sequence  
Listing ID No. 16), 88, KDTGIARV (Sequence Listing ID No. 17),  
94, RVPLAGAA (Sequence Listing ID No. 3), 101, AGGPGVGRAAGRGVPAG  
(Sequence Listing ID No. 4), 104, PGVGRAAG (amino acids 4-11 of  
Sequence Listing ID No. 4), 120, IPQAPAGLAG (Sequence Listing ID  
No. 18), 125, AGLAGPVRGVGGPSQ (Sequence Listing ID No. 5), 131,  
VRGVGGPS (amino acids 6-13 of Sequence Listing ID No. 5) 139,  
QQVMTPQG (Sequence Listing ID No. 107), 140, QVMTPQGR (amino  
acids 1-6 of Sequence Listing ID No. 6), 141, VMTPQGRG, amino  
acids 2-9 of (Sequence Listing ID No. 6), 144, PQGR (amino acids  
5-8 of Sequence Listing ID No. 6), 142, MTPQGRGT (amino acids 3-  
11 of Sequence Listing ID No. 6), 143, TPQGRGTV, (amino acids 4-  
11 of Sequence Listing ID No. 6), 144, PQGRGTVA (amino acids 5-12  
of Sequence Listing ID No. 6) 145, QGRGTVA (Sequence Listing ID  
No. 108) 164, APTQYPPG (Sequence Listing ID No. 109) 165,  
PTQYPPGR (amino acids 1-8 of Sequence Listing ID No. 7) 166,  
TQYPPGRG (amino acids 2-9 of Sequence Listing ID No. 7) 167,  
QYPPGRGT, amino acids 3-10 of (Sequence Listing ID No. 7) 168,  
YPPGRGTP (amino acids 4-11 of Sequence Listing ID No. 7) 169,  
PPGRGTPP (amino acids 5-12 of Sequence Listing ID No. 7) 170,~~

U.S. SERIAL NO: 07/867, 819  
FILED: April 13, 1992  
AMENDMENT

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*730*

~~PGRGTPPP (amino acids 6-13 of Sequence Listing ID No. 7) 171,  
GRGTPPPP (amino acids 7-14 of Sequence Listing ID No. 7) 172,  
RGTPPPPV (amino acids 8-15 of Sequence Listing ID No. 7) 173,  
GTPPPPVG (Sequence Listing ID No. 110) 174, TPPPPVGRATPPPGI  
(Sequence Listing ID No. 8), 175, PPPVGRA (amino acids 2-9 of  
Sequence Listing ID No. 8), 184, PPPGIMAP (Sequence Listing ID  
No. 9), 188, IMAPPPGM (Sequence Listing ID No. 111), 189,  
MAPPPGMRPPM (Sequence Listing ID No. 10), 189, MAPPPGMR (amino  
acids 1-8 of Sequence Listing ID No. 10), 191, PPPGMR (amino  
acids 3-8 of Sequence Listing ID No. 13), 190, APPPGMRP (amino  
acids 2-9 of Sequence Listing ID No. 10), 191, PPPGMRPP (amino  
acids 3-10 of Sequence Listing ID No. 10), 192, PPGMRPPM (amino  
acids 4-11 of Sequence Listing ID No. 10), 202, PIGLPPARGTPIGMPP  
(Sequence Listing ID No. 11), 206, PPARGTPI, (amino acids 5-11 of  
Sequence Listing ID No. 11), 212, PIGMPPPG (Sequence Listing ID  
No. 12), 213, IGMPPPGM (Sequence Listing ID No. 12), 214,  
GMPPPGMR (Sequence Listing ID No. 113), 215, MPPPGMRP (Sequence  
Listing ID No. 118), 216, PPPGMRPP (amino acids 4-11 of Sequence  
Listing ID No. 14), 217, PPGMRPPP (Sequence Listing ID No. 114),  
220, MRPPPPGI (Sequence Listing ID No. 115), 221, RPPPPGIR (amino  
acids 1-8 of Sequence Listing ID No. 13), 221, RPPPPGIRGPP  
(Sequence Listing ID No. 13), 223, PPPGIR (amino acids 3-8 of  
Sequence Listing ID No. 13), 222, PPPPGIRG (amino acids 2-9 of  
Sequence Listing ID No. 13), 223, PPPGIRGP (amino acids 3-10 of~~

U.S. SERIAL NO: 07/867, 819  
FILED: April 13, 1992  
AMENDMENT

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*Sub*  
*730*  
Sequence Listing ID No. 13), 224, PPGIRGPP (amino acids 4-11 of Sequence Listing ID No. 13), 228, RGPPPPGM (amino acids 1-8 of Sequence Listing ID No. 14), 228, RGPPPPGMRPPR (Sequence Listing ID No. 14), 229, GPPPPGMR (amino acids 2-9 of Sequence Listing ID No. 14), 230, PPPPGMRP (amino acids 3-10 of Sequence Listing ID No. 14), 231, PPPGMRPP (amino acids 4-11 of Sequence Listing ID No. 14), 231, PPPGMR (amino acids 3-8 of Sequence Listing ID No. 10), and 232, PPGMRPPR (amino acids 5-12 of Sequence Listing ID No. 14);

the 70 kD nRNP epitopes: (11) ALFAPRDP (Sequence Listing ID No. 72), (65) ERMERKRR (Sequence Listing ID No. 73), (133) MVYSKRSG (Sequence Listing ID No. 74), (161) GKKIDGRR (Sequence Listing ID No. 75), (178) VERGRTVK (Sequence Listing ID No. 76), (186) VKGWRPRR (Sequence Listing ID No. 77), (264) RRSRSRDK (Sequence Listing ID No. 78), (274) RRSRERS (Sequence Listing ID No. 79), (277) SRERSKDK (Sequence Listing ID No. 80), (282) KRRSSRSR (Sequence Listing ID No. 81), and (355) RRSRHSER (Sequence Listing ID No. 82);

the nRNP A peptide epitopes: (16) LNEKIKKD (Sequence Listing ID No. 83), (21) KKDELKKS (Sequence Listing ID No. 84), (44\*) SRSLKMRG (Sequence Listing ID No. 85), (73) PFYDKPMR (Sequence Listing ID No. 86), (93) IIAKMKGTF (Sequence Listing ID No. 87), (103\*) DRKREKRK (Sequence Listing ID No. 88), (116) QETPATKK (Sequence Listing ID No. 89), (263) ALOGFKIT (Sequence

U.S. SERIAL NO: 07/867, 819  
FILED: April 13, 1992  
AMENDMENT

Listing ID No. 90), and (274) MKISFAKK (Sequence Listing ID No. 91); and

the nRNP C peptide epitopes: (19) RKHKENVK (Sequence Listing ID No. 92), (35) KDYYQKWM (Sequence Listing ID No. 93), (56) AFQQGKIP (Sequence Listing ID No. 94), (61) KIPPTPFS (Sequence Listing ID No. 95), (78) PPPPSLPG (Sequence Listing ID No. 96), (82) SLPGPPRP (Sequence Listing ID No. 97), (85) PPRPGMMP (Sequence Listing ID No. 98), (108) PPPPGMMP (Sequence Listing ID No. 99), (117) GPAPGMRP (Sequence Listing ID No. 100), (136) PPMRPPA (Sequence Listing ID No. 101), and (152) PGMTRPDR (Sequence Listing ID No. 102)].

2. (twice amended) [Peptides] A peptide of claim 1 consisting of between four and twenty five amino acids.

3. (twice amended) [Peptides] A peptide of claim 2 reactive with anti-Ro/SSA polyclonal antibodies.

4. (twice amended) [Peptides] A peptide of claim 2 reactive with anti-SM B/B' polyclonal antibodies.

5. (twice amended) [Peptides] A peptide of claim 2 reactive with anti-La/SSB polyclonal antibodies.

Please cancel claims 6-9.

10. (twice amended) [Peptides] A peptide of claim 1 labelled with a compound selected from the group consisting of dyes, fluorescent labels, chemiluminescent labels, enzymes, and radioactive labels.



U.S. SERIAL NO: 07/867, 819  
FILED: April 13, 1992  
AMENDMENT

11. (twice amended) [Peptides] A peptide of claim 1 immobilized onto a substrate.

C3 ~~Sub 105~~ 12. (three times amended) A method for screening patients for autoimmune disorders comprising reacting a biological sample with a peptide forming a linear epitope selected from the group of peptides of less than forty amino acids, beginning with the amino acid numbered from the amino terminus followed by the listed amino acid sequence consisting of

[the La/SSB epitopes: 136, QVLNIQMRRTLHKAFKGS (Sequence Listing ID No. 19), 139, NIQMRRTLHKAFK (amino acids 4-16 of Sequence Listing ID No. 19), 144, RTLHKAFK (amino acids 9-16 of Sequence Listing ID No. 19), 17, ICHQIEYYFGDFNLPRDKFLK (Sequence Listing ID No. 20), 24, YFGDFNLP (amino acids 8-15 of Sequence Listing ID No. 20), 46, WVPLEIMIKFNR (Sequence Listing ID No. 21), 47, VPLEIMIK (amino acids 2-9 of Sequence Listing ID No. 21), 86, KTKIRRSPPSKPL (Sequence Listing ID No. 22), 88, KIRRSPPSK (amino acids 4-11 of Sequence Listing ID No. 22), 56, NRLNRLTTDFNVIVE (Sequence Listing ID No. 23), 56, NRLNRLTT (amino acids 1-8 of Sequence Listing ID No. 23), 257, GEIKWIDFVRGAK (Sequence Listing ID No. 24), 260, KWIDFVRGAK (amino acids 4-13 of Sequence Listing ID No. 24), 262, IDFVRGAK (amino acids 6-13 of Sequence Listing ID No. 24), 325, SLNKWKSKGRRFKGKGKGNK (Sequence Listing ID No. 25), 330, KSKGRRFK (amino acids 6-13 of Sequence Listing ID No. 25), 292, GNLQLRNKEVTW (Sequence Listing

U.S. SERIAL NO: 07/867, 819  
FILED: April 13, 1992  
AMENDMENT

10  
C3  
ID No. 26), 296, LRNKEVTW (amino acids 5-12 of Sequence Listing  
ID No. 26), 154, IFVVFDSIE (Sequence Listing ID No. 27), 155,  
FVVFDSIE (amino acids 2-9 of Sequence Listing ID No. 27), 176,  
KETDLLILFKDDYFA (Sequence Listing ID No. 28), 182, ILFKDDYF  
(amino acids 7-14 of Sequence Listing ID No. 28), 104,  
YKNDVKNRSVYIKGFPT (Sequence Listing ID No. 29), 112, SVYIKGFP  
(amino acids 9-16 of Sequence Listing ID No. 29), 63, TDFNVIVE  
(Sequence Listing ID No. 30), 64, DFNVIVEA (amino acids 2-9 of  
Sequence Listing ID No. 30), 270, EGIILFKEKAK (Sequence Listing  
ID No. 31), 270, EGIILFKE (amino acids 1-8 of Sequence Listing ID  
No. 31), 354, KVQFQGKTKFASD, (Sequence Listing ID No. 32), 360,  
KTKTFASD (amino acids 7-14 of Sequence Listing ID No. 32), 246,  
REDLHILF (Sequence Listing ID No. 33), 232, CLLKFSGD (Sequence  
Listing ID No. 34), 379, TGPVKRAR (Sequence Listing ID No. 35),  
200, KVEAKLRAKQ (Sequence Listing ID No. 36), 202, EAKLRAKQ  
(amino acids 3-10 of Sequence Listing ID No. 36);]

the Ro/SSA epitopes: 30, MNRLHRFL (Sequence  
Listing ID No. 37), 37, LCFGSEGGT (Sequence Listing ID No. 38),  
38, CFGSEGGT (amino acids 2-9 of Sequence Listing ID No. 38), 41,  
SEGGTYIIKEQ (Sequence Listing ID No. 39), 42, EGGTYIIKEQ (amino  
acids 2-11 of Sequence Listing ID No. 39), 44, GTYYIKEQ (amino  
acids 4-11 of Sequence Listing ID No. 39), 44, GTYYI (amino acids  
4-8 of Sequence Listing ID No. 39), 76, EIKSFSQEGRT (Sequence  
Listing ID No. 40), 78, KSFSQEGR (amino acids 3-10 of Sequence

U.S. SERIAL NO: 07/867, 819  
FILED: April 13, 1992  
AMENDMENT

101  
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Listing ID No. 40), 81, SQEGRTTKQ (Sequence Listing ID No. 41),  
84, GRTTKQEPM (Sequence Listing ID No. 42), 106, STKQAAFKAV  
(amino acids 2-11 of Sequence Listing ID No. 43), 105,  
ISTKQAAFKAVS (Sequence Listing ID No. 43), 108, KQAAFKAV (amino  
acids 4-11 of Sequence Listing ID No. 43), 111, AFKAVSEVC  
(Sequence Listing ID No. 44), 126, FTFIQFKKDLKESMK (Sequence  
Listing ID No. 45), 130, QFKKDLKE (amino acids 5-12 of Sequence  
Listing ID No. 45), 138, SMKCGMWGRA (Sequence Listing ID No. 46),  
139, MKCGMWGRA (amino acids 2-10 of Sequence Listing ID No. 46),  
142, GMWGRALRKAIA (Sequence Listing ID No. 47), 145, GRALRKAI  
(amino acids 4-11 of Sequence Listing ID No. 47), 165,  
ALAVTKYKQRNGWSHKDLLRLSH (Sequence Listing ID No. 48), 169,  
TKYKQRNG (amino acids 5-12 of Sequence Listing ID No. 48), 173,  
QRNGWSHK (amino acids 9-16 of Sequence Listing ID No. 48), 182,  
LLRLSHLKPSS (Sequence Listing ID No. 49), 184, RLSHLKPS (amino  
acids 3-10 of Sequence Listing ID No. 49), 199, TKYITKGW (amino  
acids 2-9 of Sequence Listing ID No. 71), 202, ITKGWKEV (amino  
acids 5-12 of Sequence Listing ID No. 71), 210, HELYKEKA  
(Sequence Listing ID No. 50), 212, LYKEKALSV (Sequence Listing ID  
No. 51), 216, KALSVETEKLLKYL (Sequence Listing ID No. 52), 222,  
TEKLLKYL (amino acids 7-14 of Sequence Listing ID No. 52), 224,  
KLLKYLEA (Sequence Listing ID No. 53), 229, LEAVEKVKRTKDE  
(Sequence Listing ID No. 54), 234, KVKRTKDE (amino acids 6-13 of  
Sequence Listing ID No. 54), 257, HLLTNHLKSKEVWKALLQEMPL

U.S. SERIAL NO: 07/867, 819  
FILED: April 13, 1992  
AMENDMENT

12  
23  
(Sequence Listing ID No. 55), 263, LKSKEVWK (amino acids 7-14 of  
Sequence Listing ID No. 55), 264, KSKEVWKA (amino acids 8-15 of  
Sequence Listing ID No. 55), 265, SKEVWK (amino acids 9-14 of  
Sequence Listing ID No. 55), 280 ALLRNLGKMTA (Sequence Listing ID  
No. 56), 283, RNLGKMT (amino acids 4-10 of Sequence Listing ID  
No. 56), 285, LGKMTANS (Sequence Listing ID No. 57), 308,  
LCNEKLLKKARIHPFHI (Sequence Listing ID No. 58), 313, LLKKARI  
(amino acids 6-12 of Sequence Listing ID No. 58), 315, KKARIHPF  
(amino acids 8-15 of Sequence Listing ID No. 58), 330,  
TYKTGHGLRGKCLKWRPDE (Sequence Listing ID No. 59), 331, YKTGHGL  
(amino acids 2-8 of Sequence Listing ID No. 59), 352, ALDAAFYK  
(Sequence Listing ID No. 60), 355, AAFYKTFKTVEPTGKRFLLA (Sequence  
Listing ID No. 61), 379, ASMNQRVLGS (Sequence Listing ID No. 62),  
365, EPTGKRFL (amino acids 11-18 of Sequence Listing ID No. 61),  
398, AMCMVVTR (Sequence Listing ID No. 63), 414, AFSDEMVP  
(Sequence Listing ID No. 64), 420, VPCPVTTD (Sequence Listing ID  
No. 65), 433, VLMAMSQI (Sequence Listing ID No. 66), 445,  
TDCSLPMI (Sequence Listing ID No. 67), 449, LPMIWAQKTNTPA (amino  
acids 3-15 of Sequence Listing ID No. 68), 472, TFAGGVHPAI  
(Sequence Listing ID No. 69), 472, TFAGGVHP (amino acids 1-8 of  
Sequence Listing ID No. 69), 481, IALREYRKKMDIPAKL (Sequence  
Listing ID No. 70), 484, REYRKKMD (amino acids 4-11 of Sequence  
Listing ID No. 70)[;

U.S. SERIAL NO: 07/867, 819  
FILED: April 13, 1992  
AMENDMENT

the Sm B/B' epitopes: 28, IGTFKAFD (Sequence Listing ID No. 103), 29, GTFKAFDK (Sequence Listing ID No. 1), 30, TFKAFDKH (amino acids 1-8 of Sequence Listing ID No. 15) 29, 30, TFKAFDKHM (Sequence Listing ID No. 15) 44, DCDEFRI (Sequence Listing ID No. 104) 45, CDEFRIK (amino acids 1-8 of Sequence Listing ID No. 2) 45, CDEFRIKPKNAKQP (Sequence Listing ID No. 2), 46, DEFRIKP (amino acids 2-9 of Sequence Listing ID No. 2), 47, EFRIKPK (amino acids 3-10 of Sequence Listing ID No. 2), 48, FRIKPKN (amino acids 4-11 of Sequence Listing ID No. 2), 49, RIKPKNA (amino acids 5-12 of Sequence Listing ID No. 2), 50, KIKPKNAK (amino acids 6-13 of Sequence Listing ID No. 2), 51, IKPKNAKQ (amino acids 7-14 of Sequence Listing ID No. 2), 52, KPKNAKQP (amino acids 8-15 of Sequence Listing ID No. 2), 53, PKNAKQPE (Sequence Listing ID No. 105), 83, EGPPPKDT (Sequence Listing ID No. 16), 88, KDTGIARV (Sequence Listing ID No. 17), 94, RVPLAGAA (Sequence Listing ID No. 3), 101, AGGPGVGRAAGRGVPAG (Sequence Listing ID No. 4), 104, PGVGRAAG (amino acids 4-11 of Sequence Listing ID No. 4), 120, IPQAPAGLAG (Sequence Listing ID No. 18), 125, AGLAGPVRGVGGPSQ (Sequence Listing ID No. 5), 131, VRGVGGPS (amino acids 6-13 of Sequence Listing ID No. 5) 139, QQVMTPQG (Sequence Listing ID No. 107), 140, QVMTPQGR (amino acids 1-6 of Sequence Listing ID No. 6), 141, VMTPQGRG, amino acids 2-9 of (Sequence Listing ID No. 6), 144, PQGR (amino acids 5-8 of Sequence Listing ID No. 6), 142, MTPQGRGT (amino acids 3-

U.S. SERIAL NO: 07/867, 819  
FILED: April 13, 1992  
AMENDMENT

11 of Sequence Listing ID No. 6), 143, TPQGRGTV, (amino acids 4-  
11 of Sequence Listing ID No. 6), 144, PQGRGTVA (amino acids 5-12  
of Sequence Listing ID No. 6) 145, QGRGTVAA (Sequence Listing ID  
No. 108) 164, APTQYPPG (Sequence Listing ID No. 109) 165,  
PTQYPPGR (amino acids 1-8 of Sequence Listing ID No. 7) 166,  
TQYPPGRG (amino acids 2-9 of Sequence Listing ID No. 7) 167,  
QYPPGRGT, amino acids 3-10 of (Sequence Listing ID No. 7) 168,  
YPPGRGTP (amino acids 4-11 of Sequence Listing ID No. 7) 169,  
PPGRGTPP (amino acids 5-12 of Sequence Listing ID No. 7) 170,  
PGRGTPPP (amino acids 6-13 of Sequence Listing ID No. 7) 171,  
GRGTPPPP (amino acids 7-14 of Sequence Listing ID No. 7) 172,  
RGTPPPP (amino acids 8-15 of Sequence Listing ID No. 7) 173,  
GTPPPPVG (Sequence Listing ID No. 110) 174, TPPPPVGRATPPPGI  
(Sequence Listing ID No. 8), 175, PPPVGRA (amino acids 2-9 of  
Sequence Listing ID No. 8), 184, PPPGIMAP (Sequence Listing ID  
No. 9), 188, IMAFPPGM (Sequence Listing ID No. 111), 189,  
MAPPPGMRPPM (Sequence Listing ID No. 10), 189, MAPPPGMR (amino  
acids 1-8 of Sequence Listing ID No. 10), 191, PPPGMR (amino  
acids 3-8 of Sequence Listing ID No. 13), 190, APPPGMRP (amino  
acids 2-9 of Sequence Listing ID No. 10), 191, PPPGMRPP (amino  
acids 3-10 of Sequence Listing ID No. 10), 192, PPGMRPPM (amino  
acids 4-11 of Sequence Listing ID No. 10), 202, PIGLPPARGTPIGMPP  
(Sequence Listing ID No. 11), 206, PPARGTPI, (amino acids 5-11 of  
Sequence Listing ID No. 11), 212, PIGMPPPG (Sequence Listing ID

U.S. SERIAL NO: 07/867, 819  
FILED: April 13, 1992  
AMENDMENT

101  
CS  
No. 12), 213, IGMPPPGM (Sequence Listing ID No. 12), 214,  
GMPPPGMR (Sequence Listing ID No. 113), 215, MPPPGMRP (Sequence  
Listing ID No. 118), 216, PPPGMRPP (amino acids 4-11 of Sequence  
Listing ID No. 14), 217, PPGMRPPP (Sequence Listing ID No. 114),  
220, MRPPPPGI (Sequence Listing ID No. 115), 221, RPPPPGIR (amino  
acids 1-8 of Sequence Listing ID No. 13), 221, RPPPPGIRGPP  
(Sequence Listing ID No. 13), 223, PPPGIR (amino acids 3-8 of  
Sequence Listing ID No. 13), 222, PPPPGIRG (amino acids 2-9 of  
Sequence Listing ID No. 13), 223, PPPGIRGP (amino acids 3-10 of  
Sequence Listing ID No. 13), 224, PPGIRGPP (amino acids 4-11 of  
Sequence Listing ID No. 13), 228, RGPPPPGM (amino acids 1-8 of  
Sequence Listing ID No. 14), 228, RGPPPPGMRPPR (Sequence Listing  
ID No. 14), 229, GPPPPGMR (amino acids 2-9 of Sequence Listing ID  
No. 14), 230, PPPPGMRP (amino acids 3-10 of Sequence Listing ID  
No. 14), 231, PPPGMRPP (amino acids 4-11 of Sequence Listing ID  
No. 14), 231, PPPGMR (amino acids 3-8 of Sequence Listing ID No.  
10), and 232, PPGMRPPR (amino acids 5-12 of Sequence Listing ID  
No. 14);

the 70 kD nRNP epitopes: (11) ALFAPRDP (Sequence  
Listing ID No. 72), (65) ERMERKRR (Sequence Listing ID No. 73),  
(133) MVYSKRSG (Sequence Listing ID No. 74), (161) GKKIDGRR  
(Sequence Listing ID No. 75), (178) VERGRTVK (Sequence Listing ID  
No. 76), (186) VKGWRPRR (Sequence Listing ID No. 77), (264)  
RRSRSDK (Sequence Listing ID No. 78), (274) RRRSRERS (Sequence

U.S. SERIAL NO: 07/867, 819  
FILED: April 13, 1992  
AMENDMENT

Listing ID No. 79), (277) SRERSKDK (Sequence Listing ID No. 80),  
(282) KRRSSRSR (Sequence Listing ID No. 81), and (355) RRSRHSER  
(Sequence Listing ID No. 82);

the nRNP A peptide epitopes: (16) LNEKIKKD (Sequence  
Listing ID No. 83), (21) KKDELKKS (Sequence Listing ID No. 84),  
(44\*) SRSLKMRG (Sequence Listing ID No. 85), (73) PFYDKPMR  
(Sequence Listing ID No. 86), (93) IIAKMKQTF (Sequence Listing ID  
No. 87), (103\*) DRKREKRK (Sequence Listing ID No. 88), (116)  
QETPATKK (Sequence Listing ID No. 89), (263) ALOGFKIT (Sequence  
Listing ID No. 90), and (274) MKISFAKK (Sequence Listing ID No.  
91); and

the nRNP C peptide epitopes: (19) RKHKENVK (Sequence  
Listing ID No. 92), (35) KDYYQKWM (Sequence Listing ID No. 93),  
(56) AFQQGKIP (Sequence Listing ID No. 94), (61) KIPPTPFS  
(Sequence Listing ID No. 95), (78) PPPPSLPG (Sequence Listing ID  
No. 96), (82) SLPGPPRP (Sequence Listing ID No. 97), (85)  
PPRPGMMP (Sequence Listing ID No. 98), (108) PPPPGMMP (Sequence  
Listing ID No. 99), (117) GPAPGMRP (Sequence Listing ID No. 100),  
(136) PPMRPPA (Sequence Listing ID No. 101), and (152) PGMTRPDR  
(Sequence Listing ID No. 102)].

13. (twice amended) The method of claim 12 wherein  
the [peptides are] peptide is labelled with a compound selected  
from the group consisting of dyes, fluorescent labels,  
chemiluminescent labels, enzymes, and radioactive labels.